

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002489.D
 Acq On : 13 Jun 2018 02:11
 Operator : JC/MD
 Sample : J3444-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 03:31:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	317342	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	170908	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	154243	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	5.51	113	116412	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
50) Toluene-d8	8.72	98	463676	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	11.14	95	163444	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	

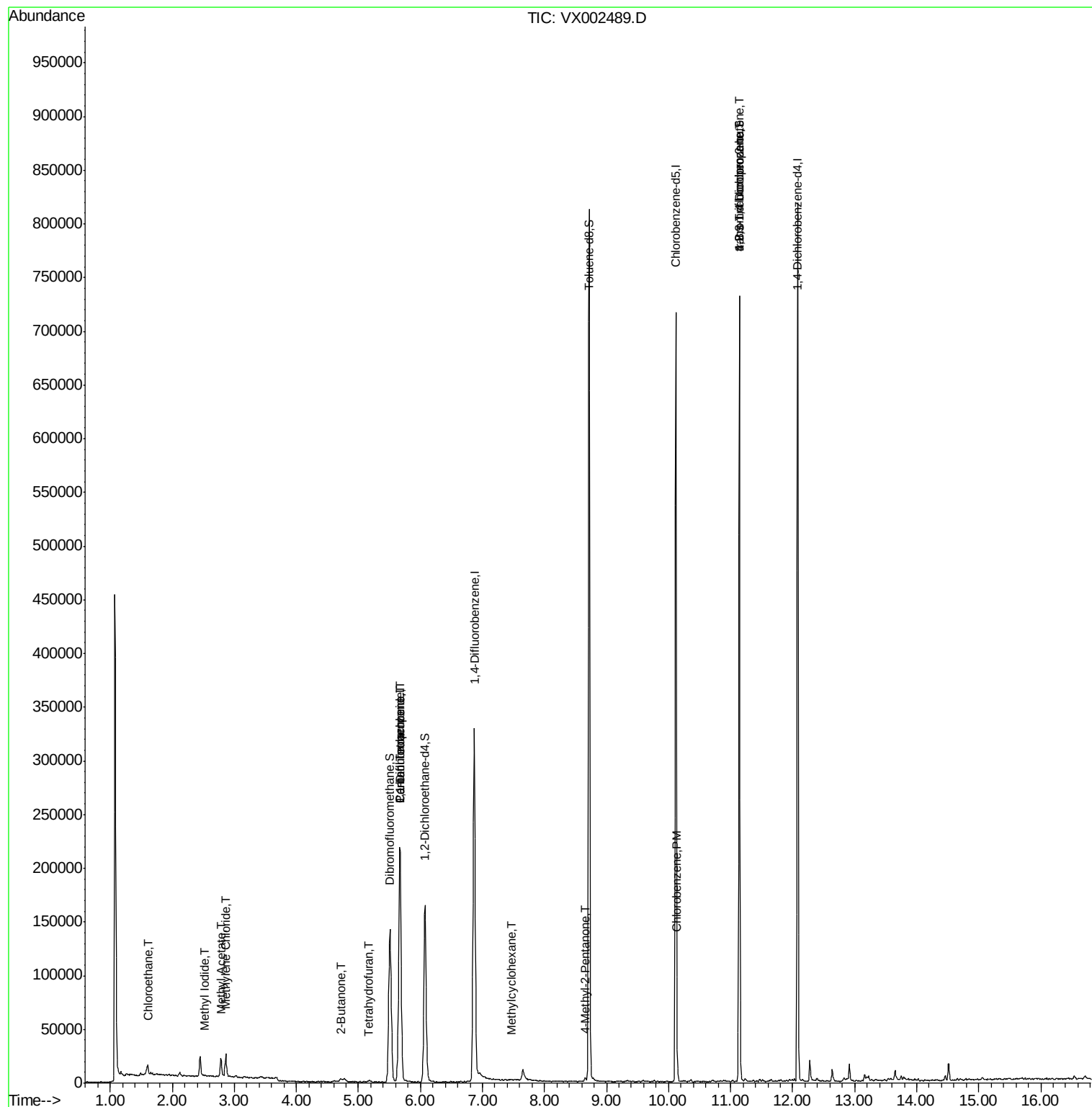
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	561	Below Cal	#	66
5) Bromomethane	1.65	94	1207	Below Cal		83
6) Chloroethane	1.62	64	652	0.36	ug/l	65
8) Diethyl Ether	2.19	74	72	Below Cal	#	1
10) Methyl Iodide	2.53	142	1398	0.43	ug/l	96
11) Tert butyl alcohol	3.06	59	415	Below Cal	#	57
13) Acrolein	2.29	56	69	Below Cal	#	1
15) Acrylonitrile	3.15	53	469	Below Cal	#	21
16) Acetone	2.45	43	20712	Below Cal		99
18) Methyl Acetate	2.78	43	20728	4.35	ug/l	95
19) Methyl tert-butyl Ether	3.22	73	66	Below Cal	#	1
20) Methylene Chloride	2.86	84	9165	1.11	ug/l	95
22) Diisopropyl ether	3.87	45	94	Below Cal	#	35
25) 2-Butanone	4.71	43	4586	2.20	ug/l	96
28) Bromochloromethane	5.04	49	44	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	1592	1.19	ug/l	62
36) 1,1-Dichloropropene	5.67	75	16033	4.81	ug/l	50
38) Carbon Tetrachloride	5.67	117	20296	5.82	ug/l	16
39) Methylcyclohexane	7.47	83	98	0.29	ug/l	1
51) 4-Methyl-2-Pentanone	8.65	43	2373	0.56	ug/l	98
65) Chlorobenzene	10.14	112	2089	0.28	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	89119	23.76	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	89119	83.30	ug/l	7

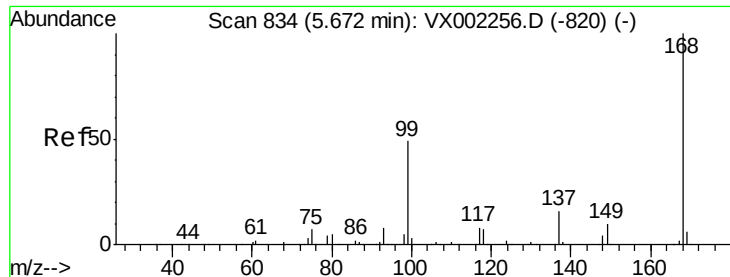
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

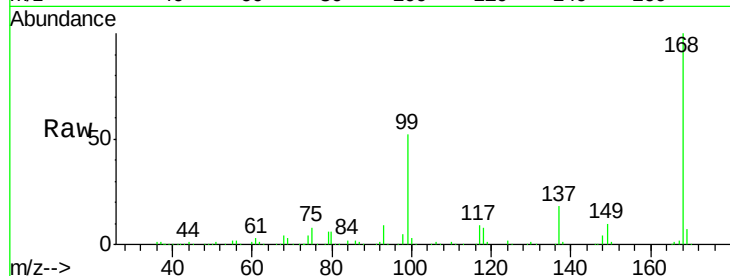
ClientSampleId :

Tot Ion:168 Resp: 212476

Ion Ratio Lower Upper

168 100

99 52.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

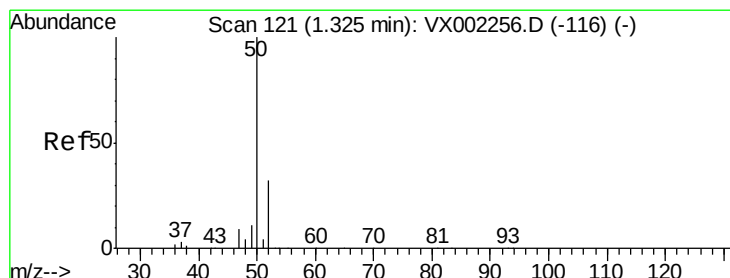
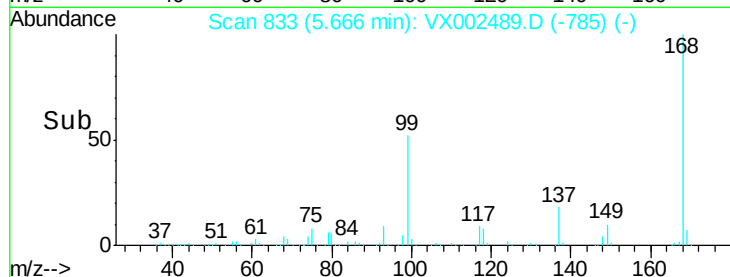
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002489.D

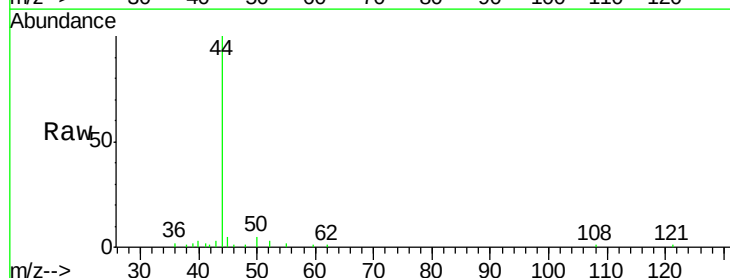
Acq: 13 Jun 2018 02:11

Tgt Ion: 50 Resp: 561

Ion Ratio Lower Upper

50 100

52 51.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

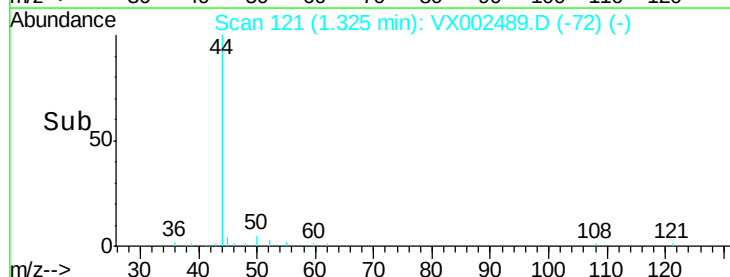
300

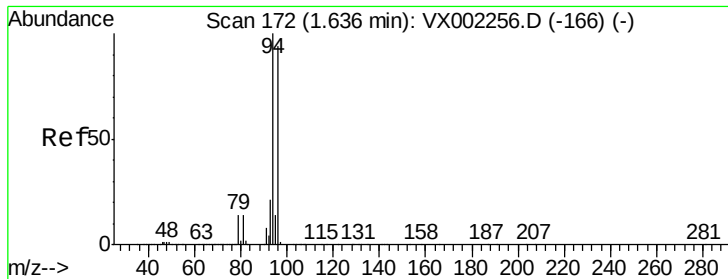
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

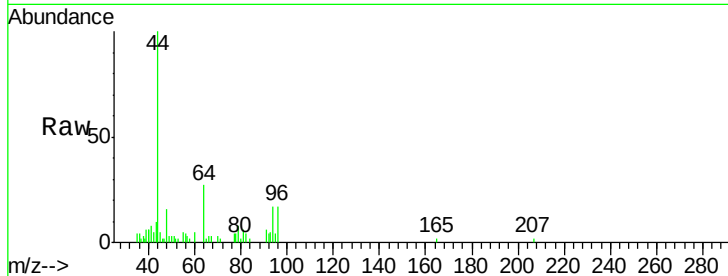
ClientSampleId :

Tot Ion: 94 Resp: 1207

Ion Ratio Lower Upper

94 100

96 110.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

200

100

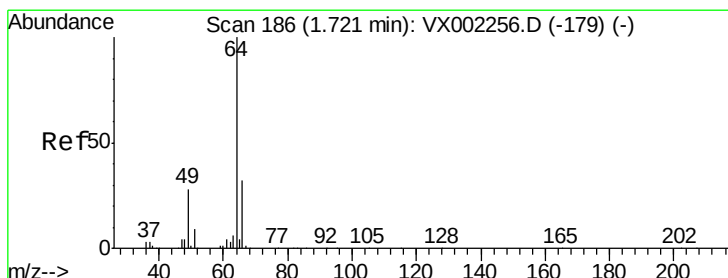
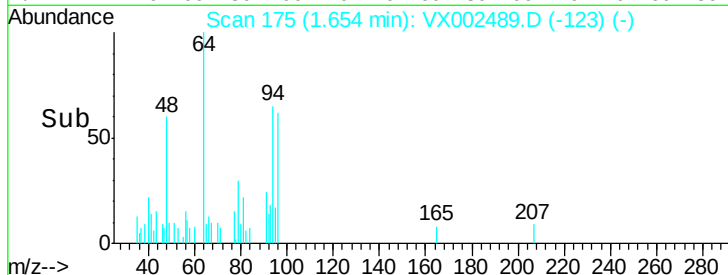
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.36 ug/l

RT: 1.62 min Scan# 169

Delta R.T. -0.10 min

Lab File: VX002489.D

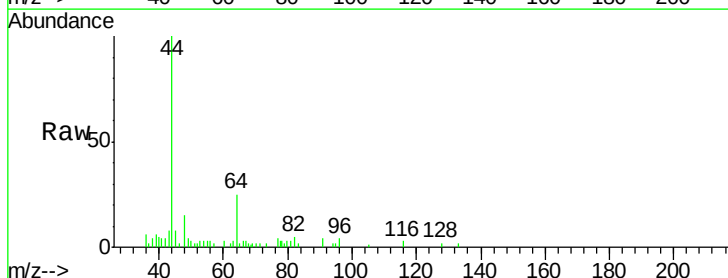
Acq: 13 Jun 2018 02:11

Tgt Ion: 64 Resp: 652

Ion Ratio Lower Upper

64 100

66 12.3 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1000

800

600

400

200

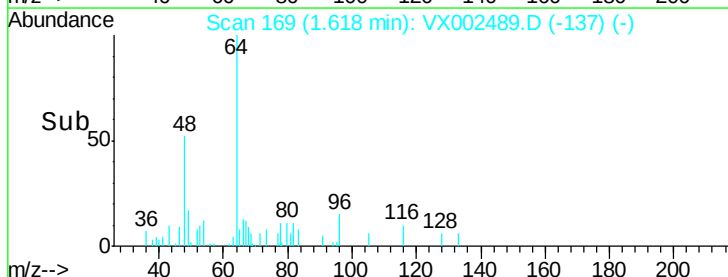
0

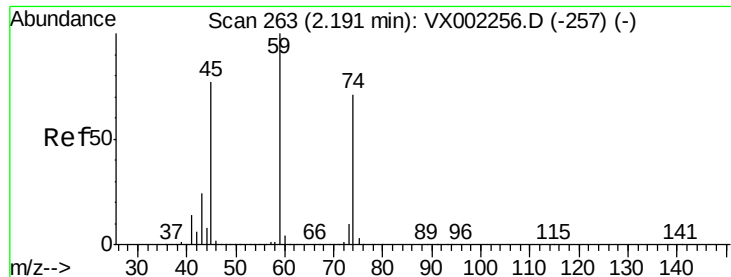
1.60

1.62

1.64

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

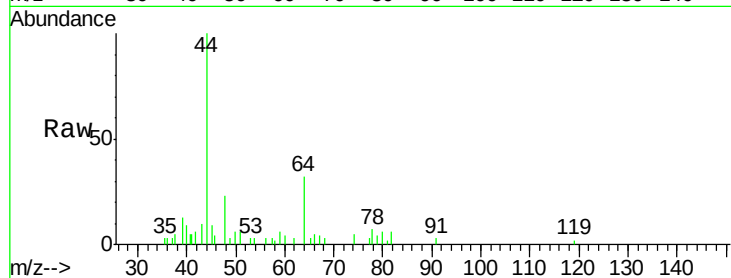
ClientSampled :

Tot Ion: 74 Resp: 72

Ion Ratio Lower Upper

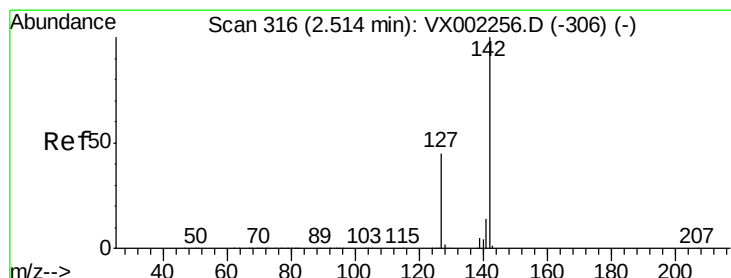
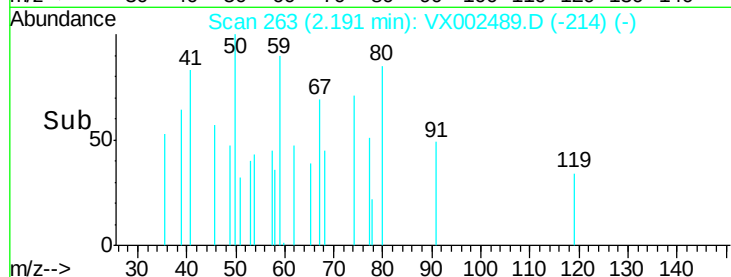
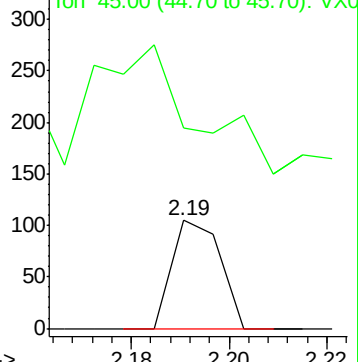
74 100

45 238.9 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

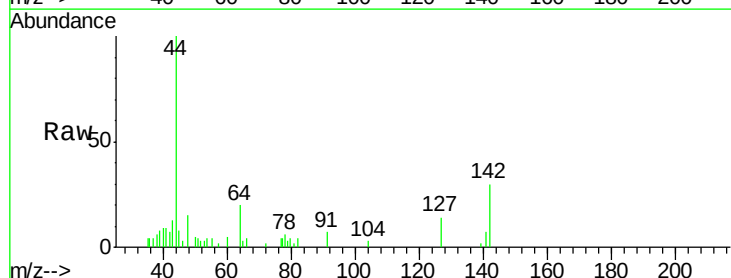
Tgt Ion: 142 Resp: 1398

Ion Ratio Lower Upper

142 100

127 48.8 36.6 55.0

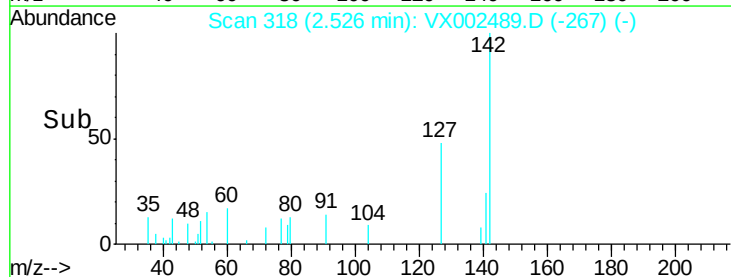
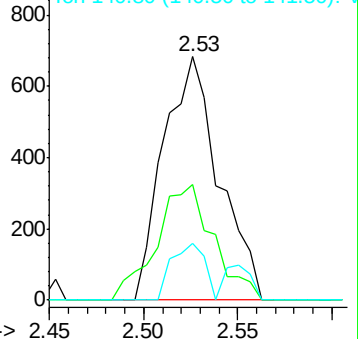
141 13.9 11.3 16.9

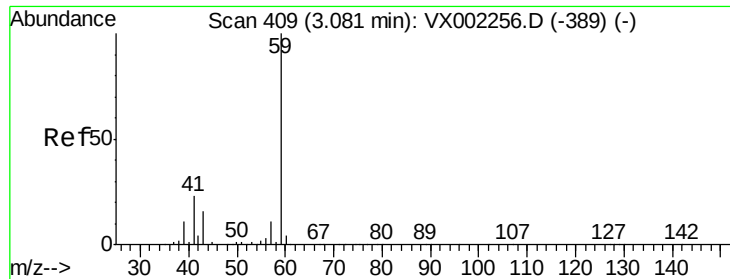


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



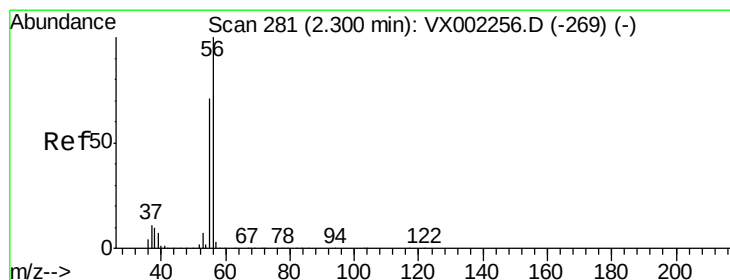
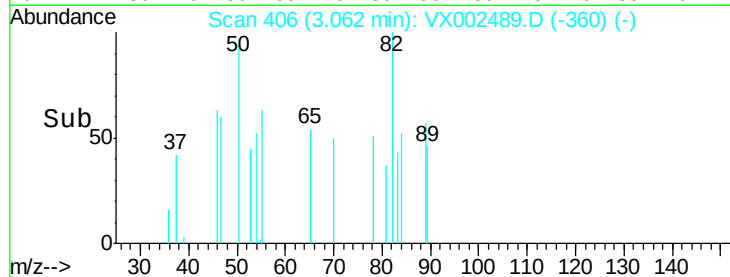
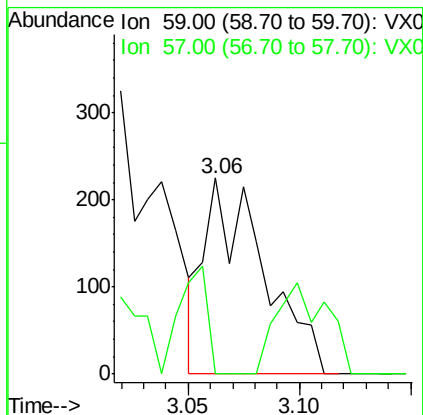
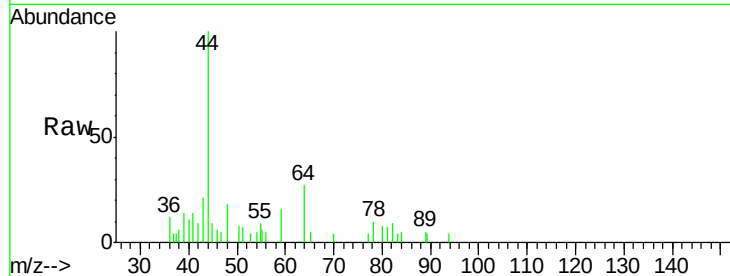


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Instrument :
MSVOA_X
ClientSampleId :

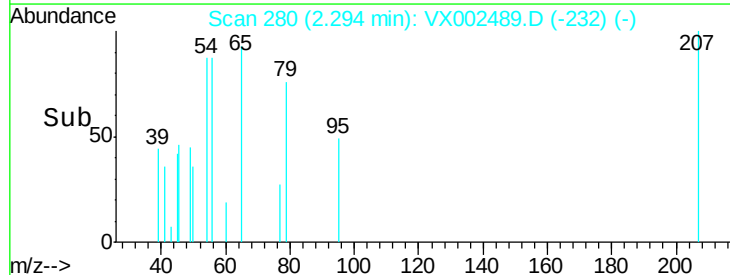
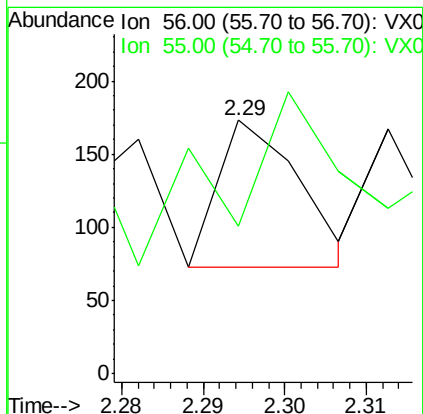
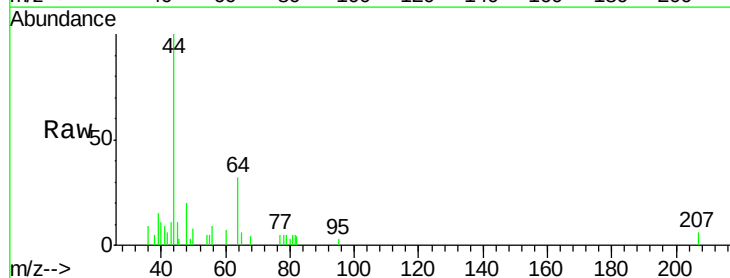
Tot Ion: 59 Resp: 415
Ion Ratio Lower Upper
59 100
57 26.0 8.2 12.2#

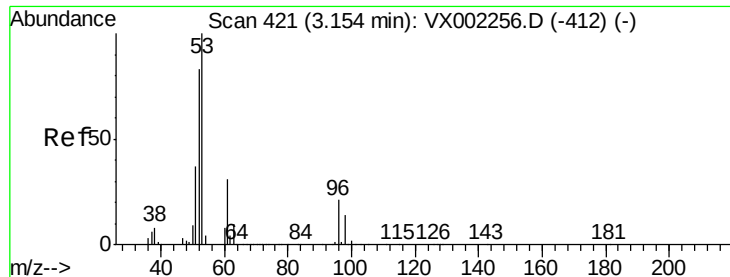


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 173.9 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

ClientSampleId :

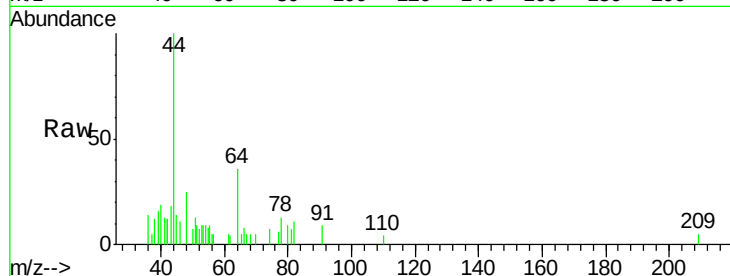
Tot Ion: 53 Resp: 469

Ion Ratio Lower Upper

53 100

52 29.2 66.7 100.1#

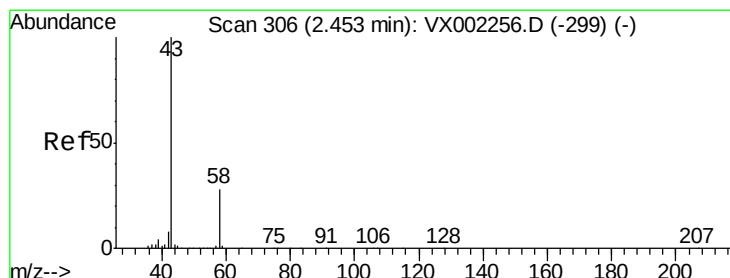
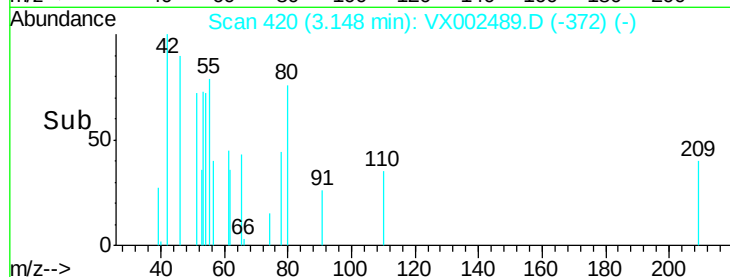
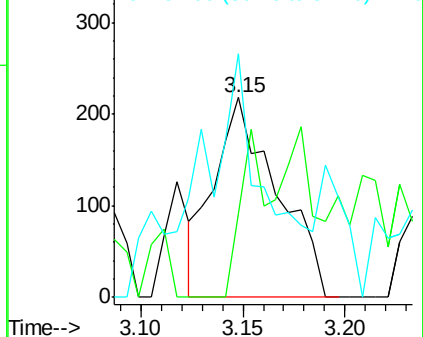
51 110.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002489.D

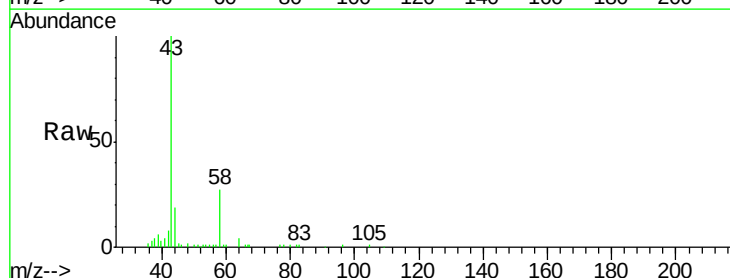
Acq: 13 Jun 2018 02:11

Tgt Ion: 43 Resp: 20712

Ion Ratio Lower Upper

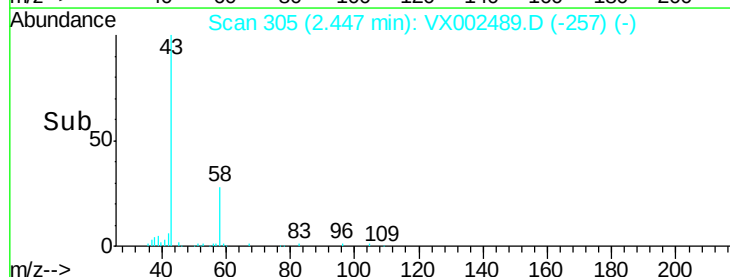
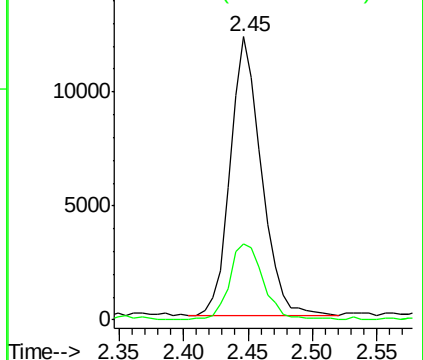
43 100

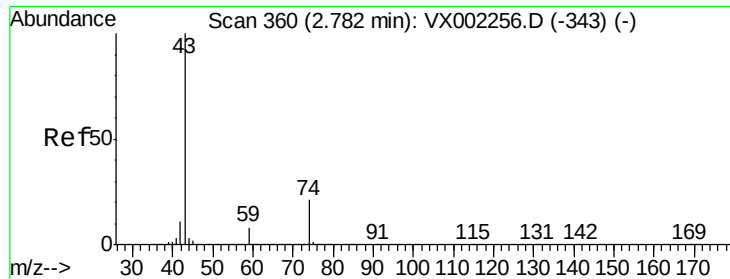
58 27.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

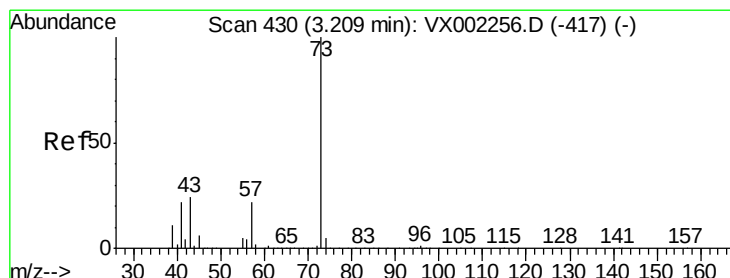
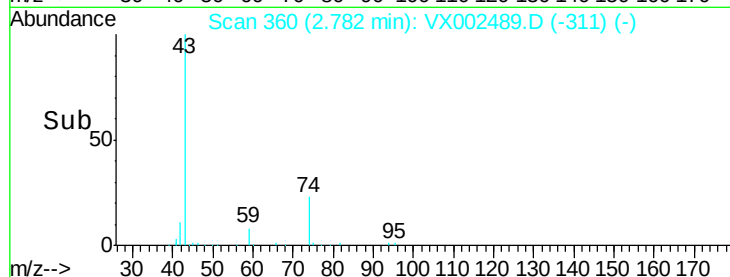
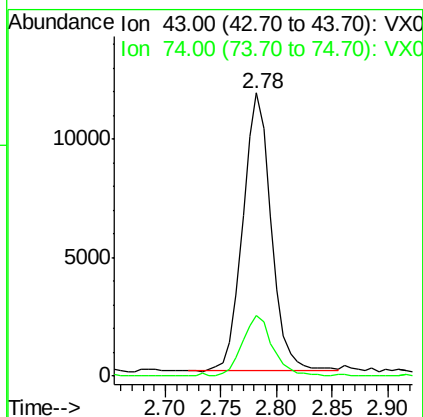
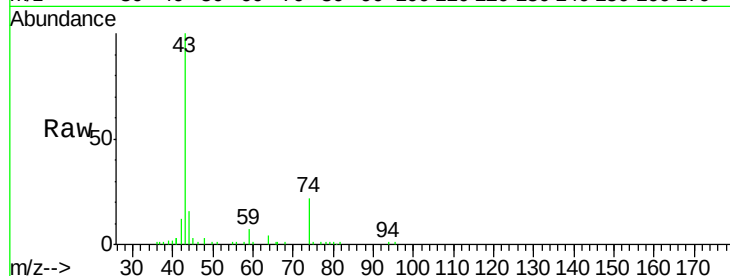




#18
Methyl Acetate
Concen: 4.35 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

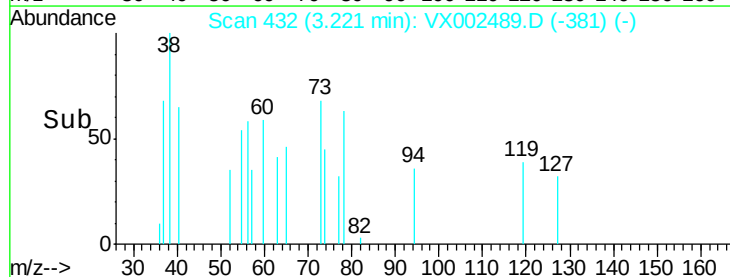
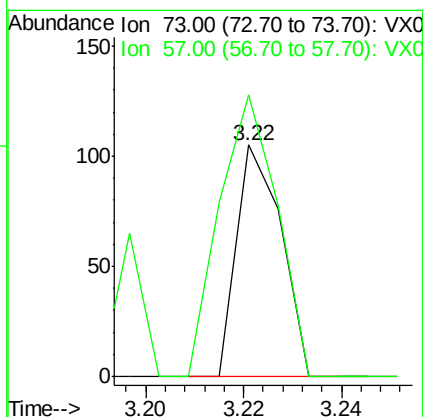
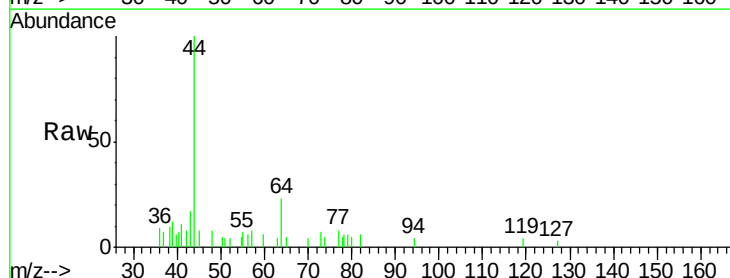
Instrument :
MSVOA_X
ClientSampled :

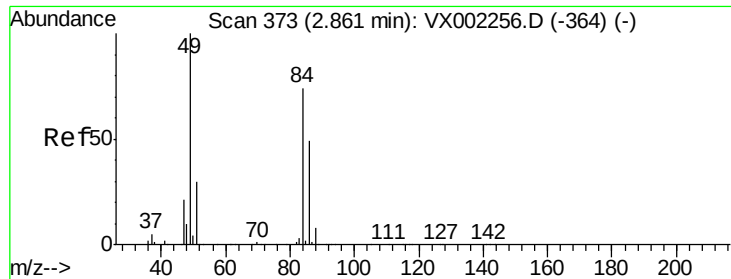
Tot Ion: 43 Resp: 20728
Ion Ratio Lower Upper
43 100
74 23.3 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.22 min Scan# 432
Delta R.T. 0.01 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion: 73 Resp: 66
Ion Ratio Lower Upper
73 100
57 121.9 17.7 26.5#

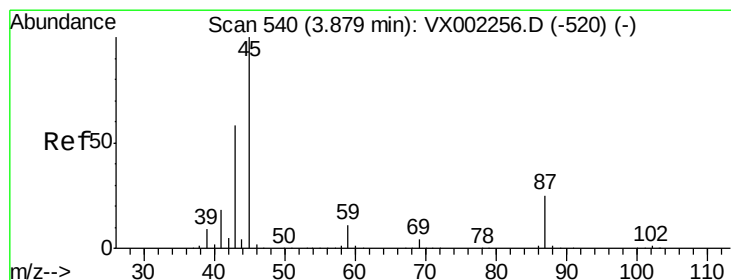
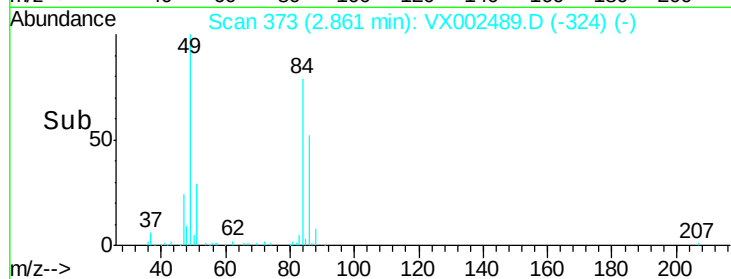
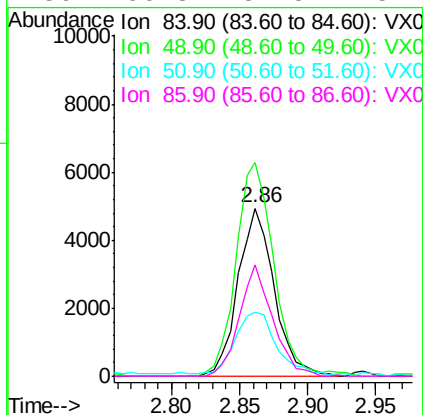
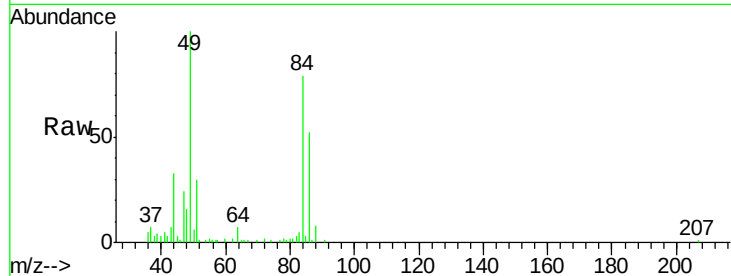




#20
Methylene Chloride
Concen: 1.11 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

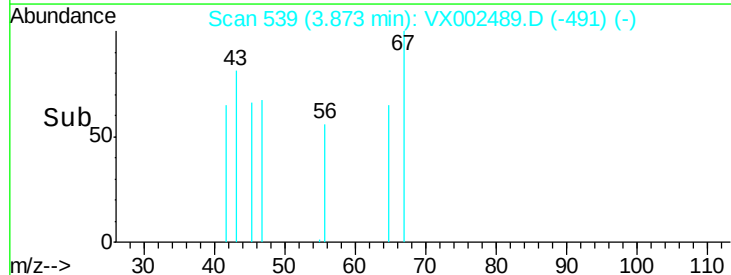
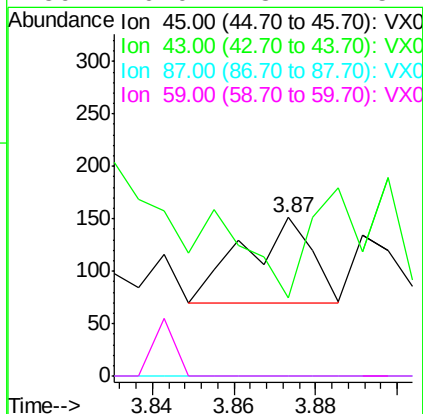
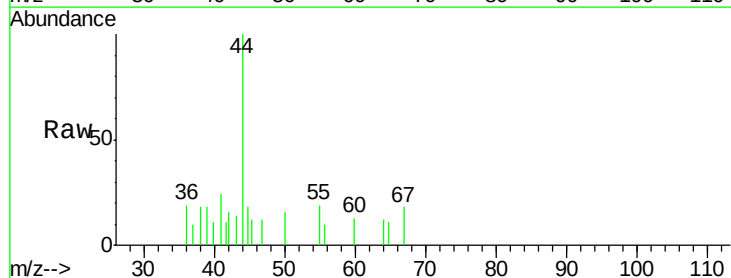
Instrument :
MSVOA_X
ClientSampleId :

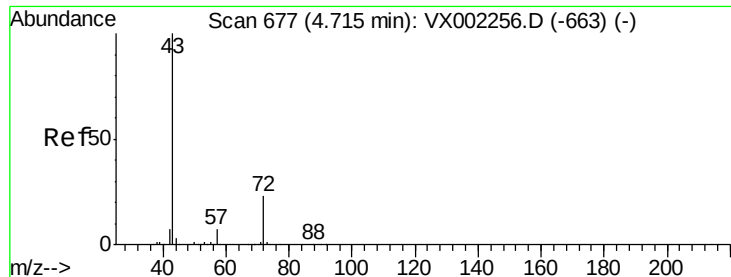
Tot Ion:	84	Resp:	9165
Ion	Ratio	Lower	Upper
84	100		
49	127.3	107.8	161.6
51	37.2	32.8	49.2
86	66.3	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 539
Delta R.T. -0.01 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion:	45	Resp:	94
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#25

2-Butanone

Concen: 2.20 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

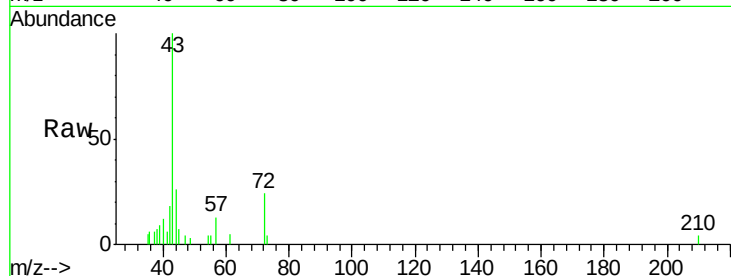
ClientSampleId :

Tot Ion: 43 Resp: 4586

Ion Ratio Lower Upper

43 100

72 24.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

1500

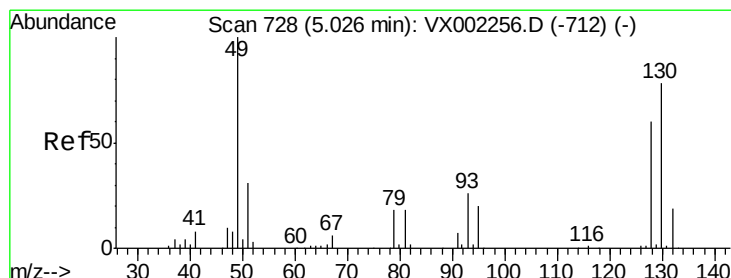
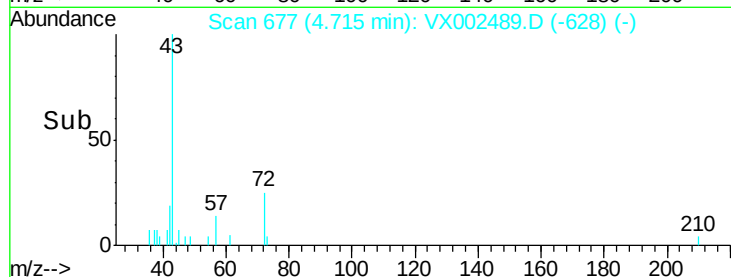
1000

500

0

Time-->

4.60 4.70 4.80



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 731

Delta R.T. 0.02 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

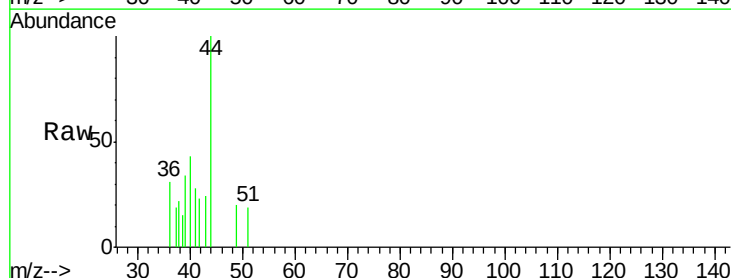
Tgt Ion: 49 Resp: 44

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.04

80

60

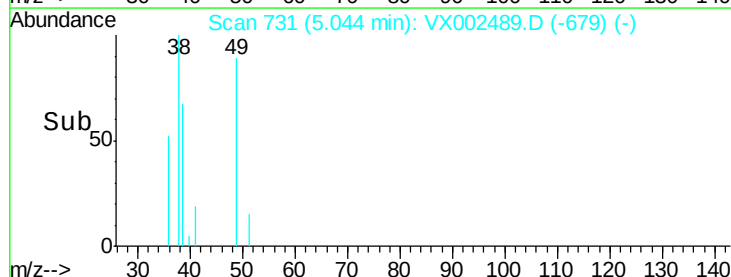
40

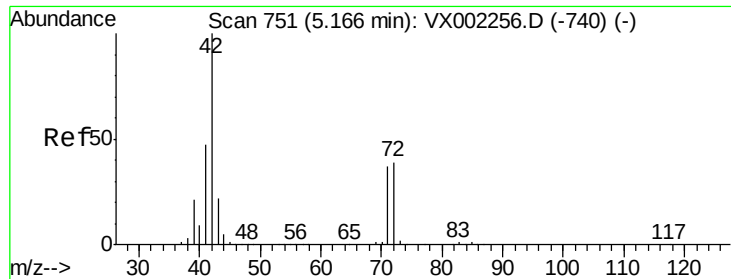
20

0

Time-->

5.02 5.04 5.06

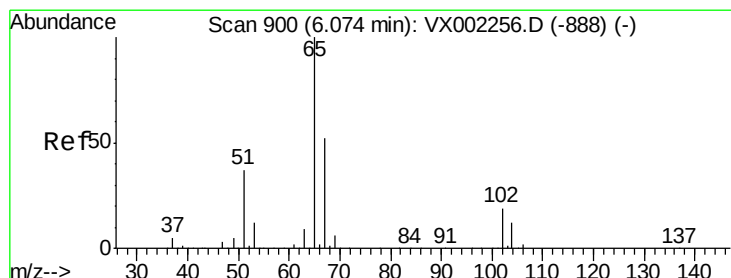
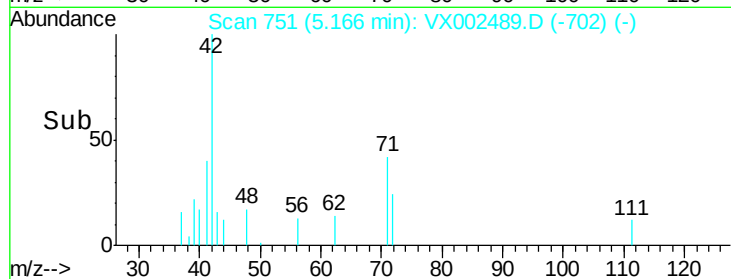
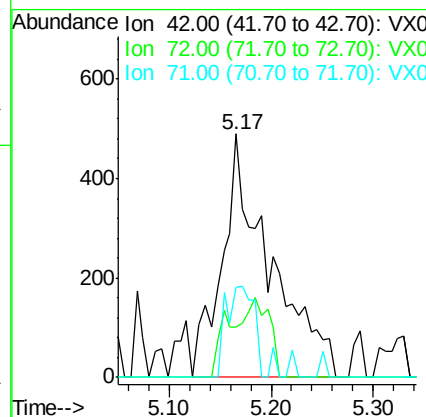
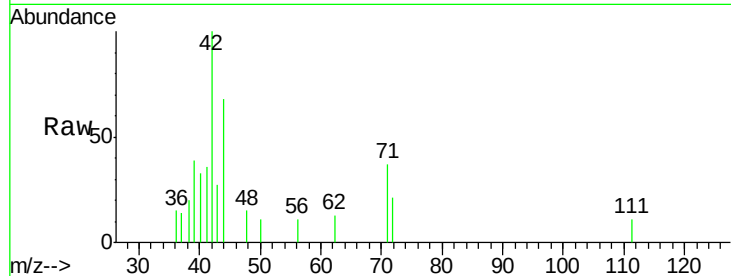




#29
Tetrahydrofuran
Concen: 1.19 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

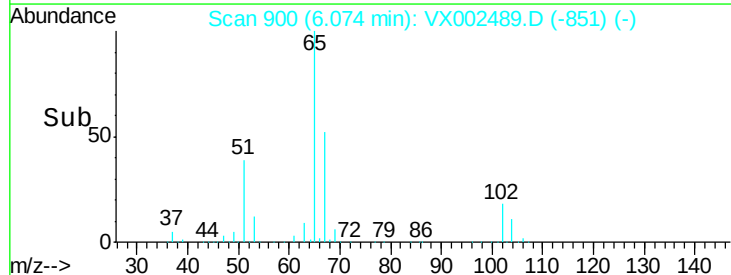
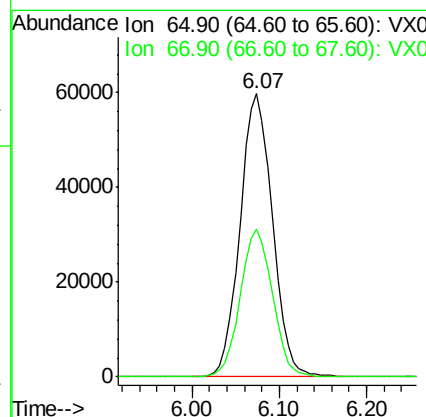
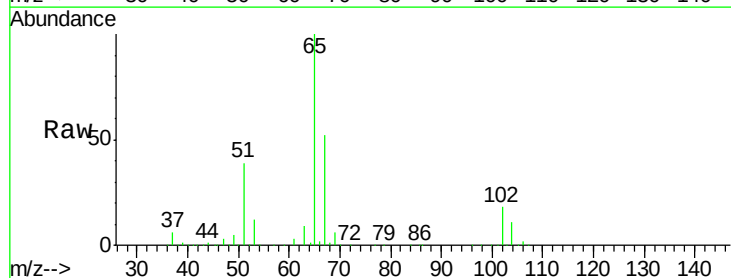
Instrument :
MSVOA_X
ClientSampleId :

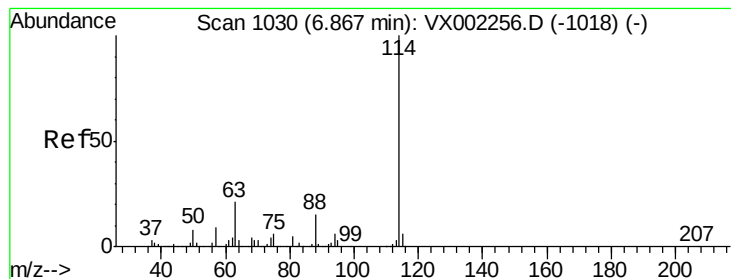
Tot Ion: 42 Resp: 1592
Ion Ratio Lower Upper
42 100
72 9.5 32.0 48.0#
71 21.9 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 50.82 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion: 65 Resp: 154243
Ion Ratio Lower Upper
65 100
67 52.1 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

ClientSampleId :

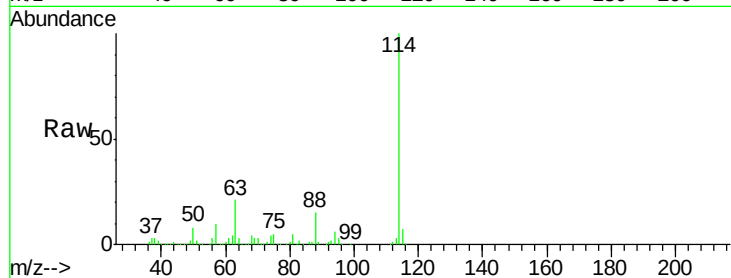
Tot Ion:114 Resp: 317342

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

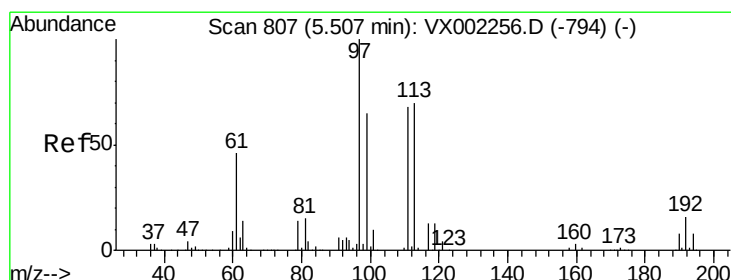
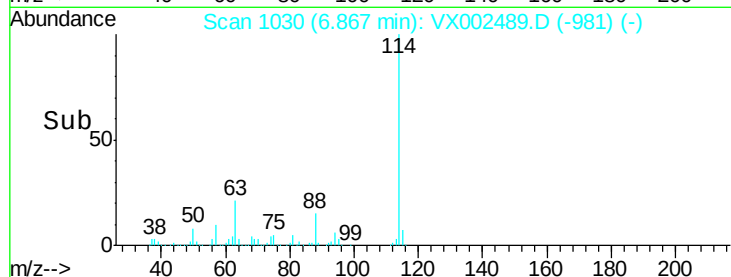
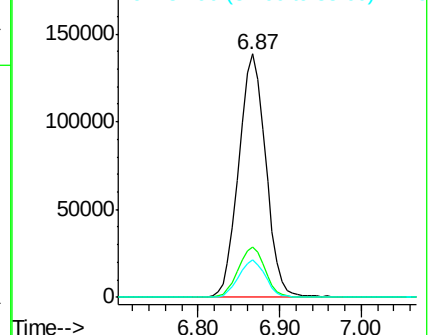
88 15.3 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.65 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

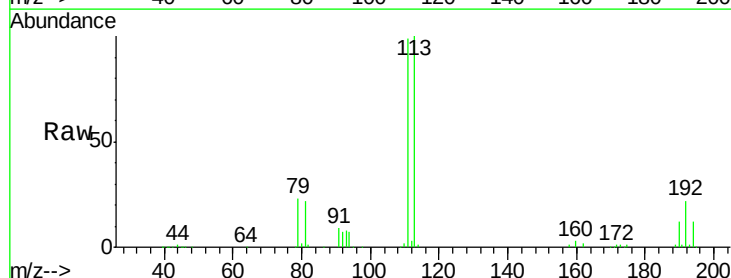
Tgt Ion:113 Resp: 116412

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

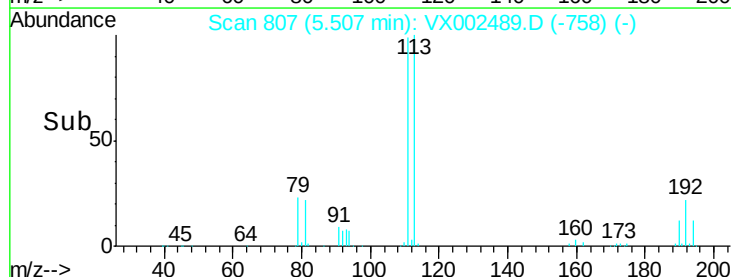
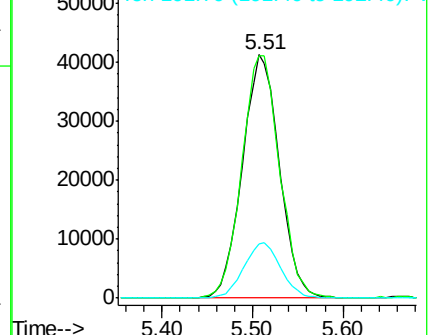
192 22.7 19.1 28.7

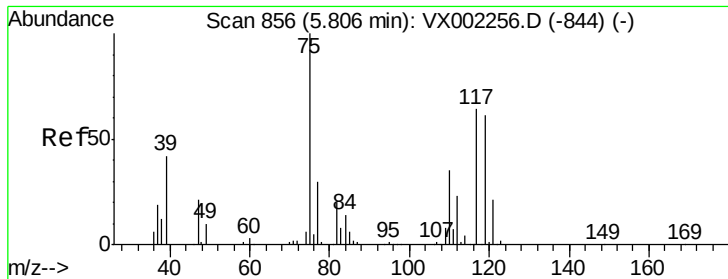


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

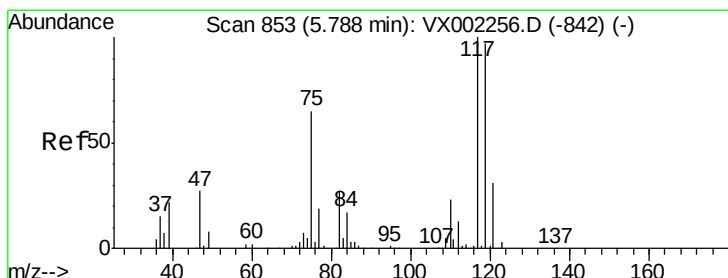
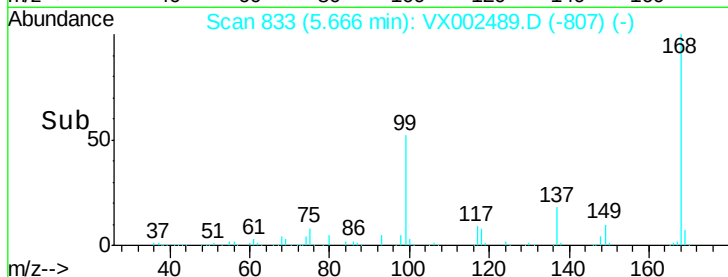
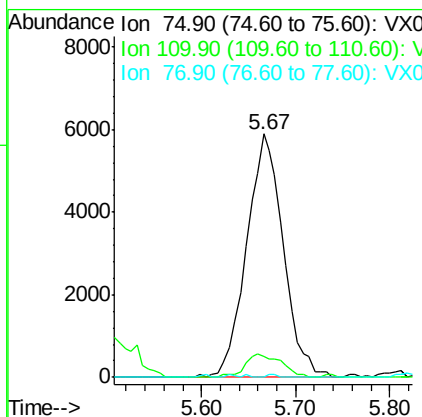
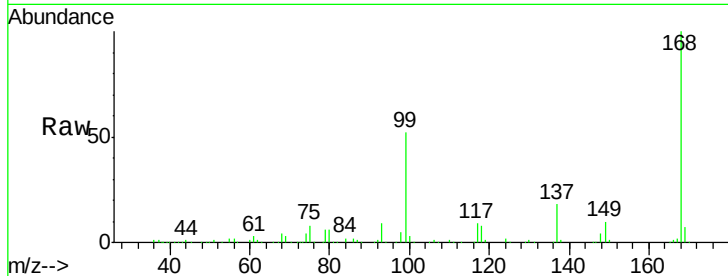




#36
 1,1-Dichloropropene
 Concen: 4.81 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002489.D
 Acq: 13 Jun 2018 02:11

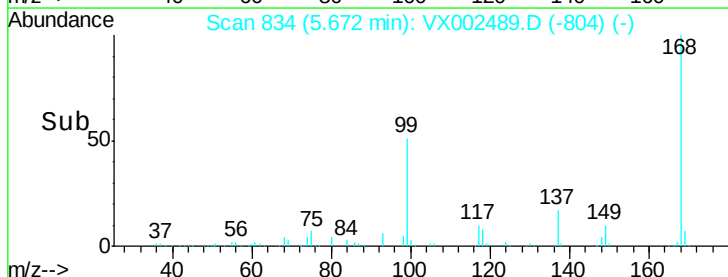
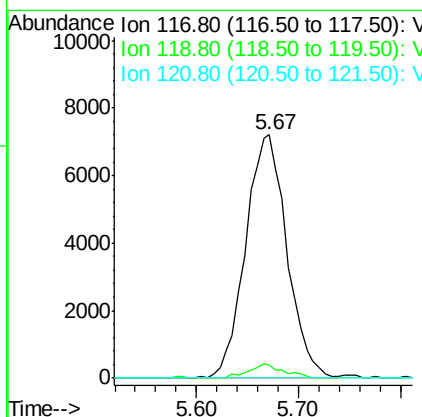
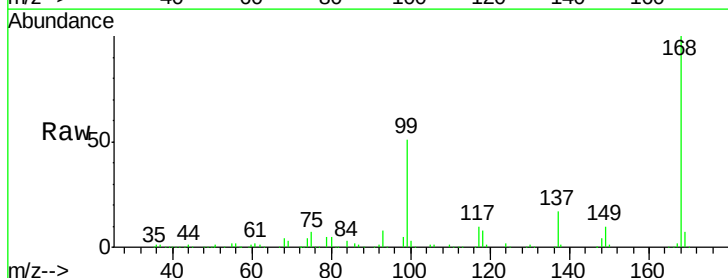
Instrument :
 MSVOA_X
 ClientSampleId :

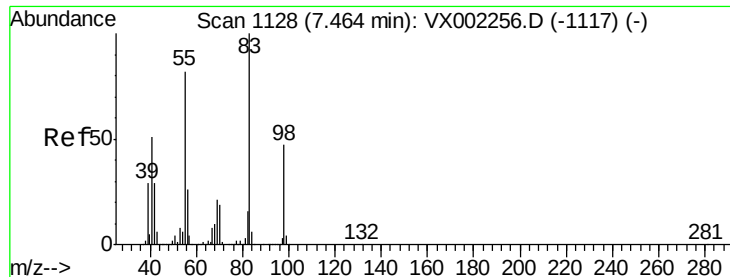
Tot Ion	75	Resp	16033
Ion Ratio	Lower	Upper	
75	100		
110	9.5	18.1	54.4#
77	0.3	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.82 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002489.D
 Acq: 13 Jun 2018 02:11

Tgt Ion	117	Resp	20296
Ion Ratio	Lower	Upper	
117	100		
119	5.4	77.4	116.0#
121	0.0	24.4	36.6#

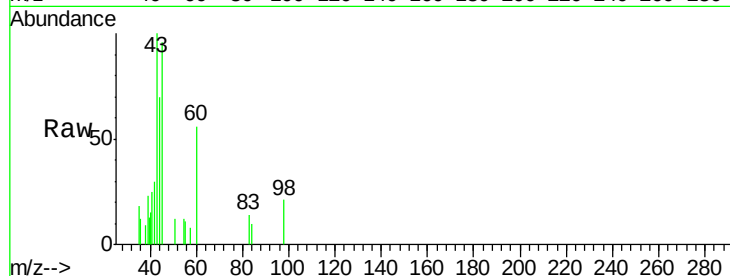




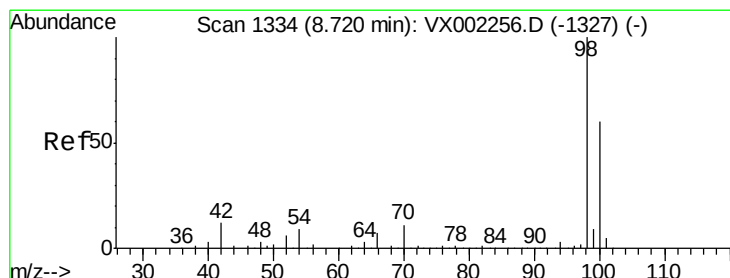
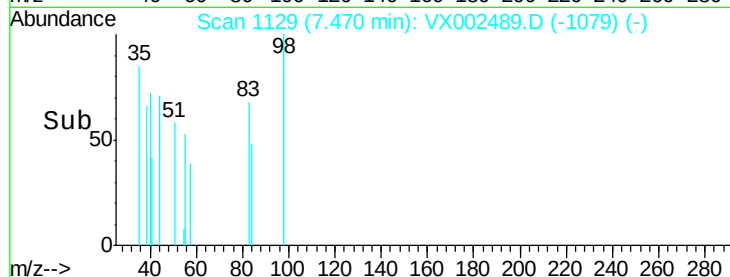
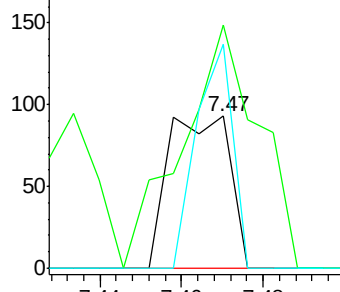
#39
Methylcyclohexane
Concen: 0.29 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 83 Resp: 98
Ion Ratio Lower Upper
83 100
55 160.2 65.4 98.0#
98 147.3 37.4 56.0#

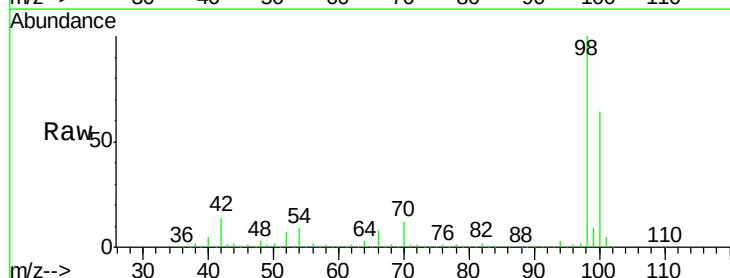


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

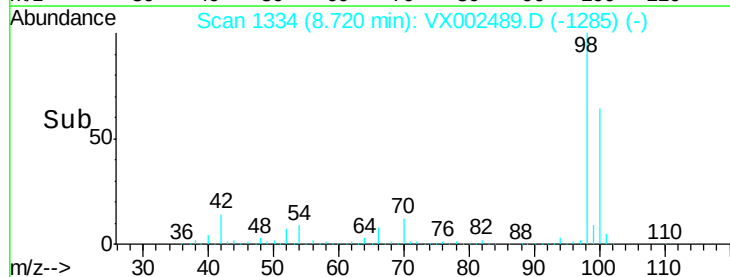
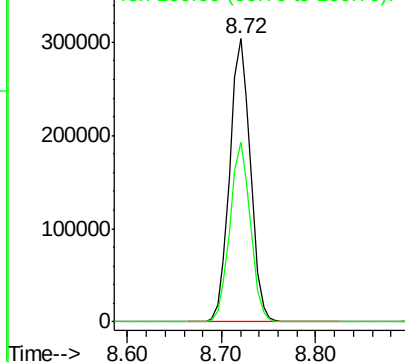


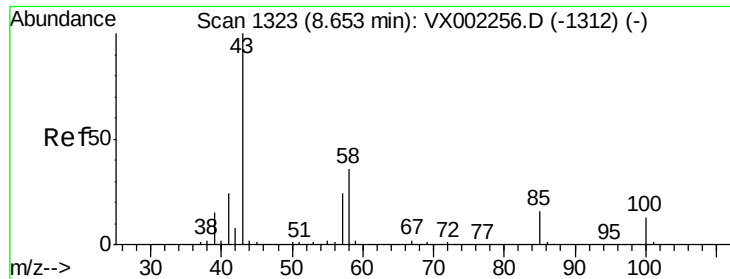
#50
Toluene-d8
Concen: 48.47 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion: 98 Resp: 463676
Ion Ratio Lower Upper
98 100
100 62.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

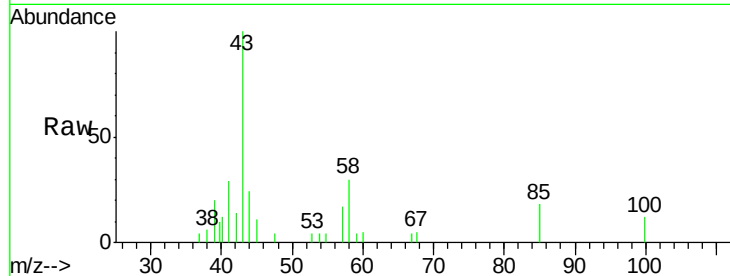
ClientSampleId :

Tot Ion: 43 Resp: 2373

Ion Ratio Lower Upper

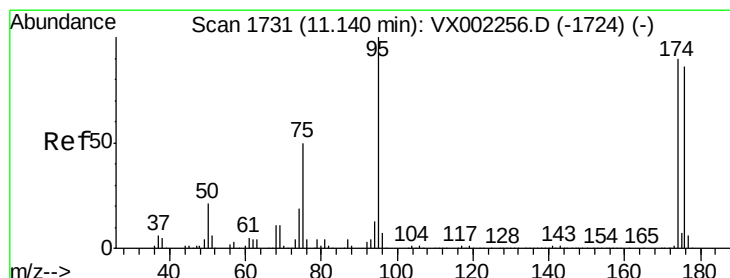
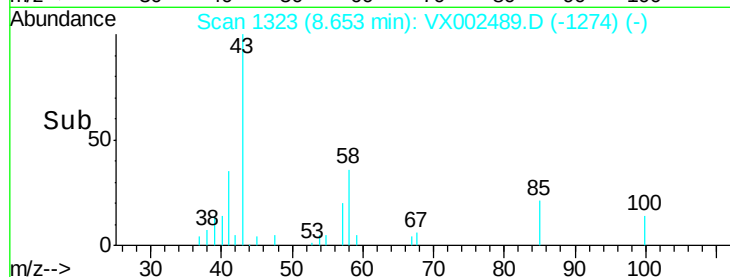
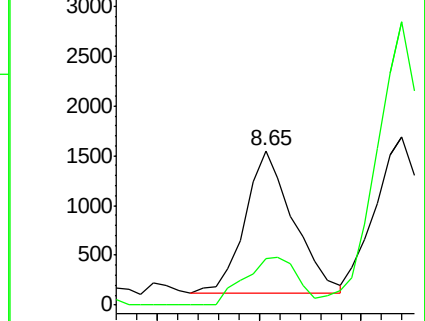
43 100

58 36.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

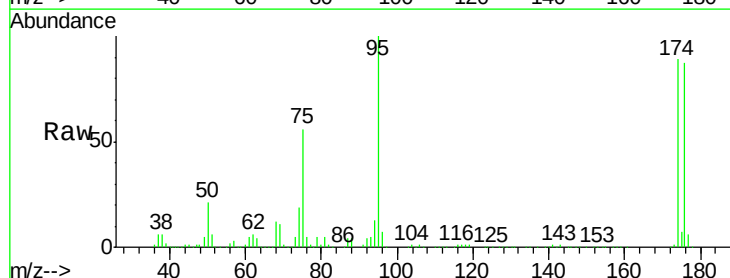
Tgt Ion: 95 Resp: 163444

Ion Ratio Lower Upper

95 100

174 92.3 0.0 187.4

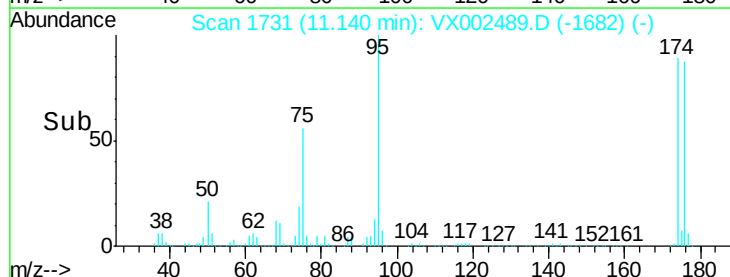
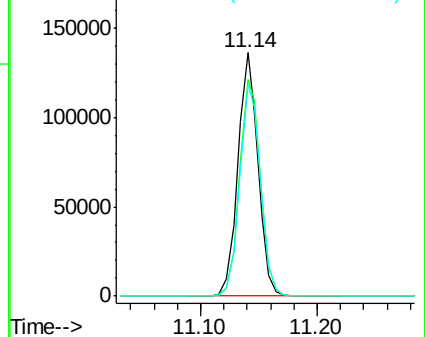
176 90.0 0.0 181.0

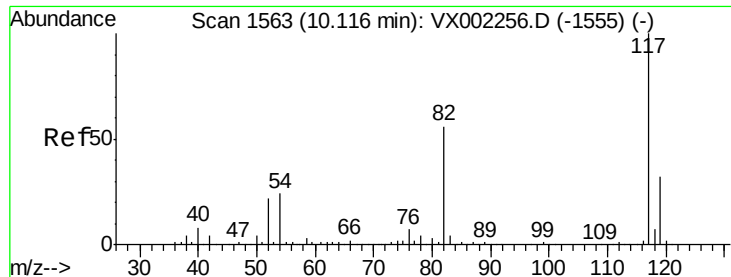


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

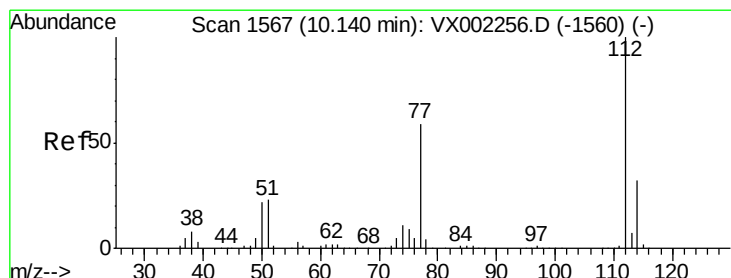
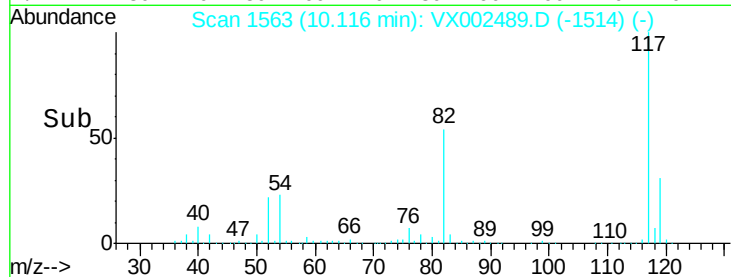
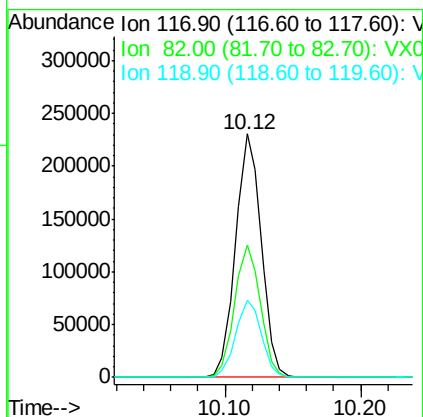
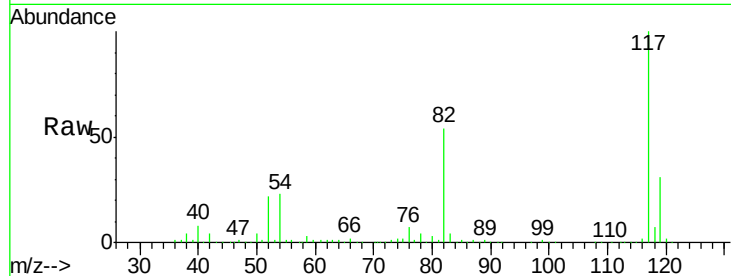




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

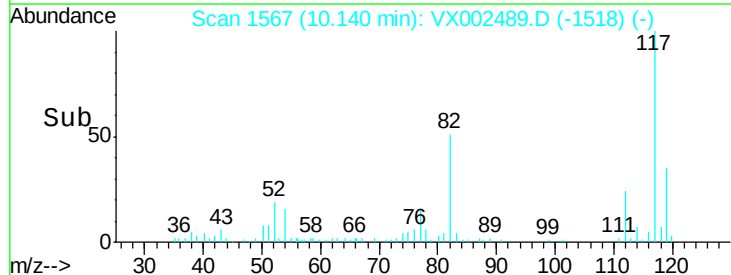
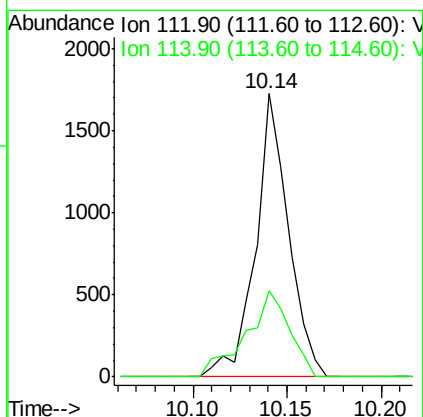
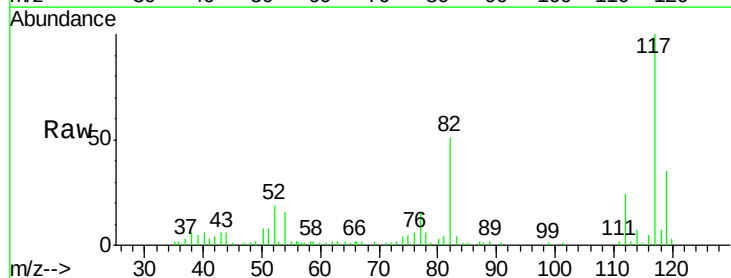
Instrument :
MSVOA_X
ClientSampleId :

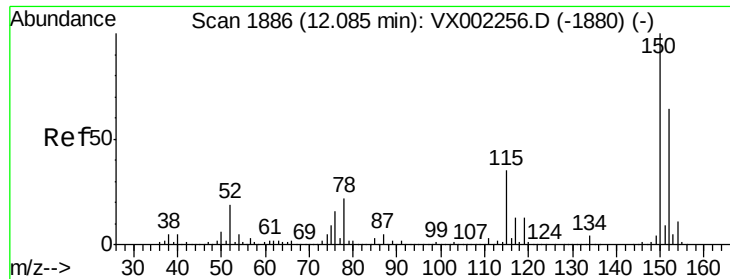
Tot Ion:117 Resp: 303339
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 31.5 25.8 38.6



#65
Chlorobenzene
Concen: 0.28 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002489.D
Acq: 13 Jun 2018 02:11

Tgt Ion:112 Resp: 2089
Ion Ratio Lower Upper
112 100
114 30.3 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002489.D

Acq: 13 Jun 2018 02:11

Instrument :

MSVOA_X

ClientSampled :

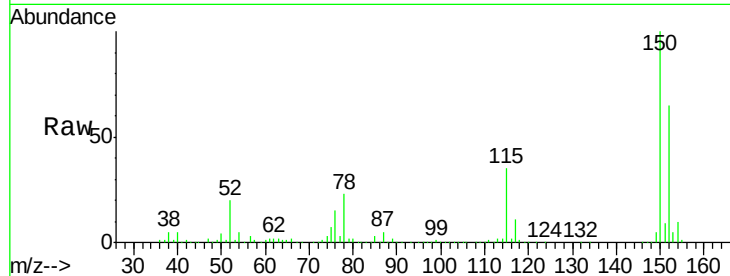
Tot Ion:152 Resp: 170908

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

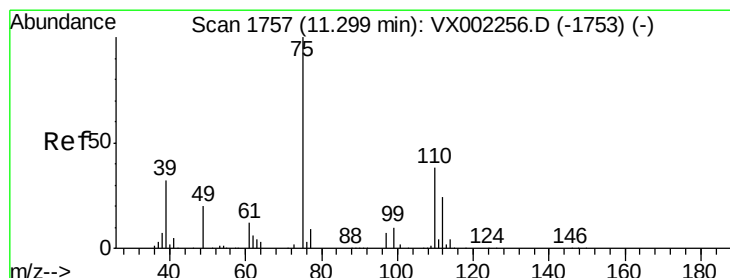
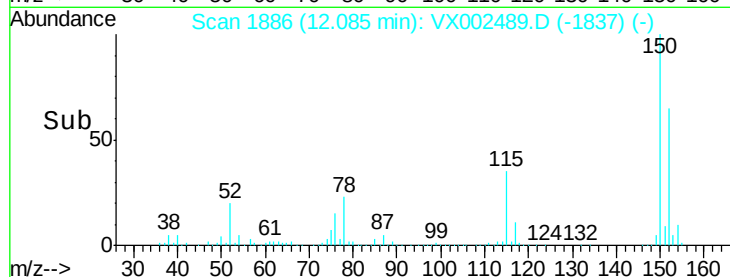
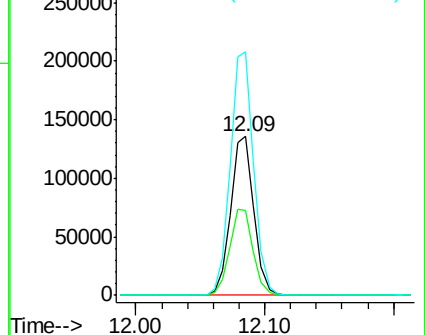
150 154.7 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002489.D

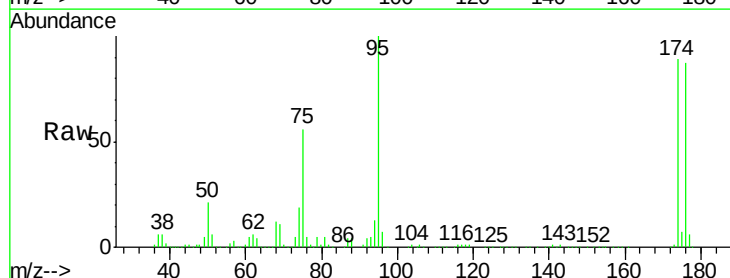
Acq: 13 Jun 2018 02:11

Tgt Ion: 75 Resp: 89119

Ion Ratio Lower Upper

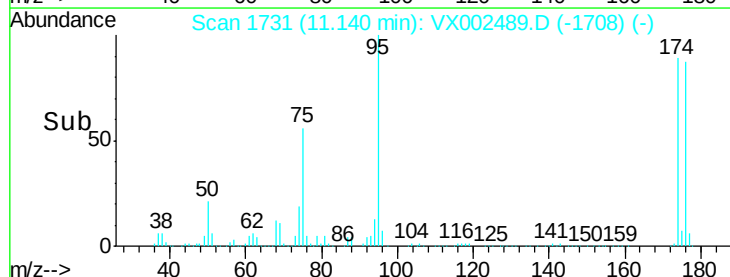
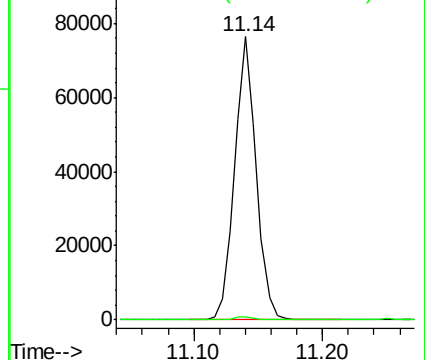
75 100

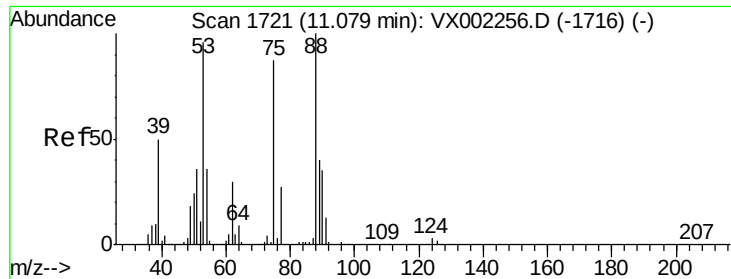
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.30 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002489.D
 Acq: 13 Jun 2018 02:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 89119
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.1 38.2 57.2#

